## WHAT IS CLAIMED IS:

1. A method of measuring a fixed volume of liquid comprising:

providing a gas or vapor permeable but liquid impermeable barrier in a first barrel having a proximal end and a distal end;

inserting the distal end into a sample comprising liquid fluid; creating a negative pressure on the proximal end;

transferring the liquid fluid from the sample into the first barrel, wherein the first barrel comprises at least one reactant; and

reacting the at least one reactant with the sample.

- 2. The method of claim 1, wherein the first barrel comprises a first reactant and a second reactant.
- 3. The method of claim 1 further comprising adjusting the position of the barrier in the first barrel.
- 4. The method of claim 1, wherein the barrier is part of a coupling device and the method further comprises adapting the coupling device to the barrel.
- 5. The method of claim 4, wherein said adapting comprises inserting the coupling device into the barrel.
- 6. The method of claim 1, wherein the barrel further comprises a valve at the distal end and the method further comprises opening and/or closing the valve.
- 7. The method of claim 1, wherein the first barrel further comprises a needle on the distal end and the method further comprises inserting the needle into the sample.
- 8. The method of claim 1 further comprising transferring the sample from the first barrel to a second barrel, wherein said first barrel is in fluid communication with the second barrel by means of a valve, wherein the first barrel comprises a first reactant and the second barrel comprises a second reactant.
- 9. The method of claim 1, wherein at least one reactant is selected from the group consisting of a salt of bisulfite, a salt of cyanide, hydrazine, hydroxylamine, an amine, and combinations thereof.
  - 10. A device for testing the level of an analyte comprising: a first barrel having a proximal and distal end;

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a gas or vapor permeable but liquid impermeable barrier situated in the barrel between the proximal and distal ends;

a retainer on the distal end; and

at least one chemical reactive with the analyte in the first barrel between the retainer and the barrier.

- 11. The method of claim 10, wherein the first barrel comprises a first reactant and a second reactant.
  - 12. The device of claim 10, wherein the analyte is an aldehyde.
- 13. The device of claim 12, wherein the aldehyde is either OPA or glutaraldehyde.
  - 14. The device of claim 10, further comprising a means for adjusting the position of said barrier, whereby liquid can only be filled up to the barrier so as to measure a fixed volume of the liquid.
- 15. The device of claim 10, which further comprises a coupling device to adapt the barrier to the testing device.
  - 16. The device of claim 15, wherein the coupling device comprises an insert.
- 17. The device of claim 16, wherein the insert is adjustable to position the barrier.
- 18. The device of claim 15, further comprising a holder to position and secure the coupling device in the testing device.
- 19. The device of claim 17, further comprising a screw for adjusting the position of the insert.
- 20. The device of claim 10, which further comprises a second barrel which is in fluid communication with said first barrel by means of a valve.
  - 21. The device of claim 10, further comprising a needle at the distal end.
- 22. The device of claim 16, wherein said insert is H-shaped in cross-sectional view.
- 23. The device of claim 16, wherein said insert is U-shaped in cross-sectional view.
  - 24. The device of claim 10, wherein said retainer comprises a valve.

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- 25. The device of claim 10, wherein said gas or vapor permeable but liquid impermeable barrier comprises hydrophobic material.
- 26. The device of claim 10, wherein said first barrel comprises at least one reactant selected from the group consisting of a salt of bisulfite, a salt of cyanide, hydrazine, hydroxylamine, an amine, and combinations thereof.